ChromaDex

Life Technologies
Your Molecular & Cell Technology Partner

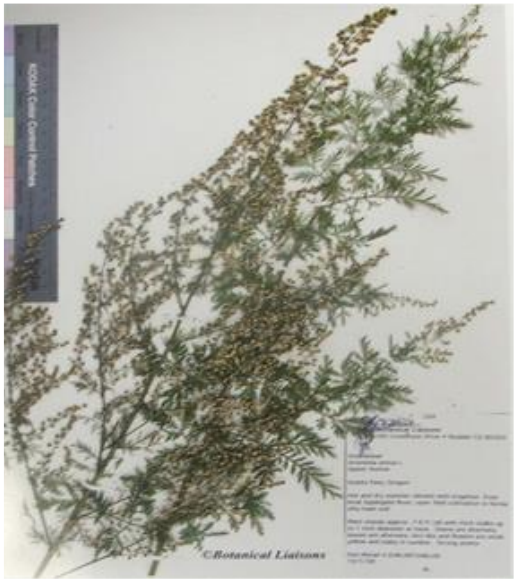
CONFIDENTIAL

SPECIMEN

Certificate of Analysis

For Laboratory Use Only

PRODUCT	*Artemisia annua* (Sweet wormwood) Herb
PART NUMBER	00030633
REFERENCE TYPE	Biomass Reference Material (VBRM)*
LOT NUMBER	00030633-272
COMMON NAME	Sweet Wormwood
LATIN NAME	*Artemisia annua* L. [Asteraceae]
PLANT PART	Leaf
SAMPLE NUMBER	CDXA-08-0578
REPORT NUMBER	CDXA-VBRMR-077-02
DATE OF SAMPLE	03/25/2008
DATE OF REEVALUATION	03/06/2013 (1st); 06/01/2017 (2nd); 07/19/2021 (3rd)
DATE OF REPORT	08/03/2021



***Note –** Vouchered (V) BRM is a voucher specimen
A full-size color voucher copy may be purchased by contacting the ChromaDex sales office

ANALYTICAL RESULTS

TEST	METHOD	RESULT
Appearance	Macroscopy	(1) Whole/Cut: Yellow/green leafy material (2) Milled: green powder and tan fibers
Anatomy/Morphology	Microscopy (400x)	Small multicellular thin walled trichome showing broken tip
HP-TLC	See HP-TLC conditions	Conforms

STORAGE CONDITIONS

STORAGE 20-30 °C; Dry storage area; Insect free; Volatile free

EXPIRATION DATE 07/2026 under the above conditions

Elizabeth Hughes
Quality Assurance
Specialist

Digitally signed by
Elizabeth Hughes
Date: 2021.08.04
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MACROSCOPY

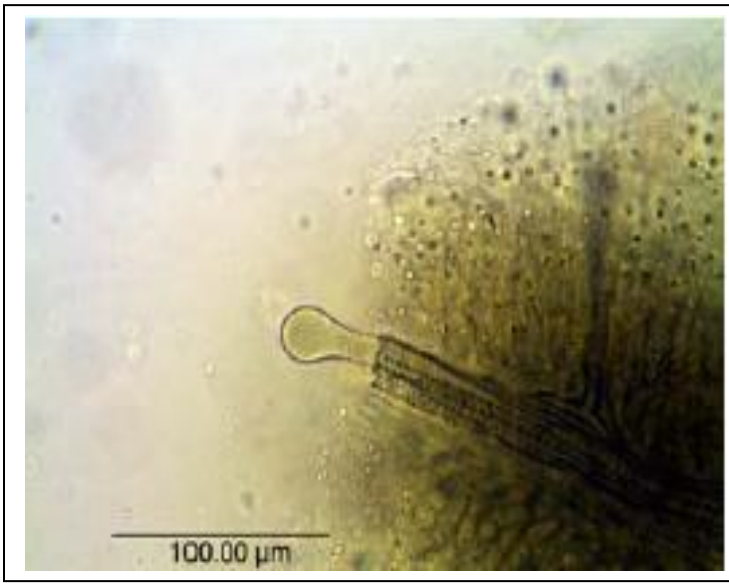
(1)

(2)

MICROSCOPY

(1)

(2)

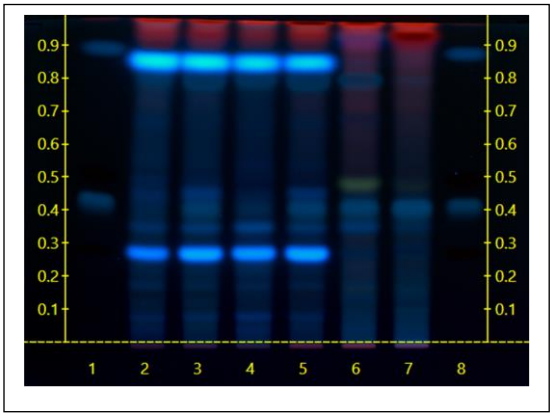


HP-TLC CONDITIONS

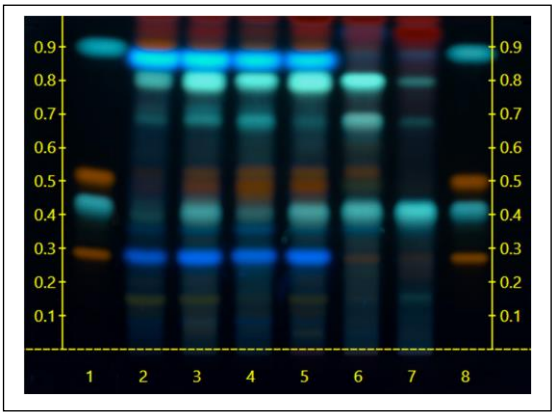
STATIONARY PHASE	Silica gel 60, HPTLC plates
SAMPLE PREPARATION	0.3 g + 3 mL Methanol, sonicate/heat at 50 °C for 30 min.
MOBILE PHASE	Ethyl acetate: Acetic acid: Formic Acid: Water [10/0.9/0.9/2]
DETECTION	(1) UV 366 nm (2) Natural Product + Polyethylene Glycol, 366 nm

HP-TLC PLATES

HP-TLC (1)



HP-TLC (2)



HP-TLC LANE APPLICATIONS

Lane	ID	Lane	ID
1	Rutin, Hyperoside, Chlorogenic acid, Caffeic acid, Methanol (2 µL)	**5**	*Artemisia annua* VBRM (6 µL)
2	*Artemisia annua* (herb (leaf, stem)) (6 µL)	**6**	*Artemisia vulgaris* (herb) (6 µL)
3	*Artemisia annua* (herb) (6 µL)	**7**	*Artemisia absinthium* (leaf) (6 µL)
4	N/A	**8**	Rutin, Hyperoside, Chlorogenic acid, Caffeic acid, Methanol (2 µL)

REVISION HISTORY

Revision History	Date of Revision	Document/Changes
00	03/06/2013	New report. Passed re-evaluation.
01	07/11/2017	Passed re-evaluation; updated expiration date; updated detection; general template update
02	08/03/2021	Material passed reevaluation by HP-TLC. Updated expiration date, template, HP-TLC method conditions, plates, and lane applications.